








## Assessment Summary

<b>Bat East Creek 0 to 3.4</b> <b>KY486462_01</b>	 <p>This part of the stream partially supports aquatic life, does not support swimming (Primary Contact Recreation).</p>
<b>Mouth to Carters Creek</b>	
<b>Muhlenberg County, Green River Basin</b>	
<b>HUC 05110003</b>	
<b>Assessment Date: 5/21/2013</b>	


Use	Cause of Impairment	Suspected Source(s) of Impairment	Basis for Listing	Data Collection and Analysis Methods <sup>1,2,3</sup>
 (5-NS)	Escherichia coli	Source Unknown	Concentrations exceeded the water quality standard	Pathogen Monitoring
 (5-PS)	Copper	Legacy coal extraction	Concentrations exceeded the water quality standard	Physical/Chemical Monitoring
 (5-PS)	Lead	Legacy coal extraction	Concentrations exceeded the water quality standard	Physical/Chemical Monitoring
 (5-PS)	Oxygen, Dissolved	Source Unknown	Concentrations did not meet the water quality standard	Physical/Chemical Monitoring
 (5-PS)	Physical substrate habitat alterations	Channelization, Habitat Modification - other than Hydromodification	Man-made or man-induced alteration of the chemical, physical (e.g. habitat), biological, and radiological integrity of water	Physical/Chemical Monitoring
 (5-PS)	Sedimentation/Siltation	Agriculture, Channelization, Crop Production (Crop Land or Dry Land), Legacy coal extraction	Sediment deposition is negatively affecting the aquatic community (e.g. habitat smothering) and/or recreation	Physical/Chemical Monitoring

<sup>1</sup> Data locations: Physical/chemical monitoring data and pathogen data can be found on the EPA Water Quality Portal; chemical monitoring data for regulated facilities (e.g. wastewater and drinking water) can be found in the EPA ECHO database (online); biological monitoring summary scores and habitat assessment scores can be found in the EPA STORET database (online); and raw community species data and fish tissue analysis data are available on request through KDOW Open Records (expected in STORET 2015).

<sup>2</sup> Data Source(s): KDOW, WKU

<sup>3</sup> Data Collection Date(s): 11/16/2010 - 10/20/2011

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 (5-PS)	Total Dissolved Solids	Source Unknown	Elevated dissolved substances are negatively affecting the aquatic community	Physical/Chemical Monitoring
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